

Hyper Dense Encoder and Signal Generator

FIG. 2

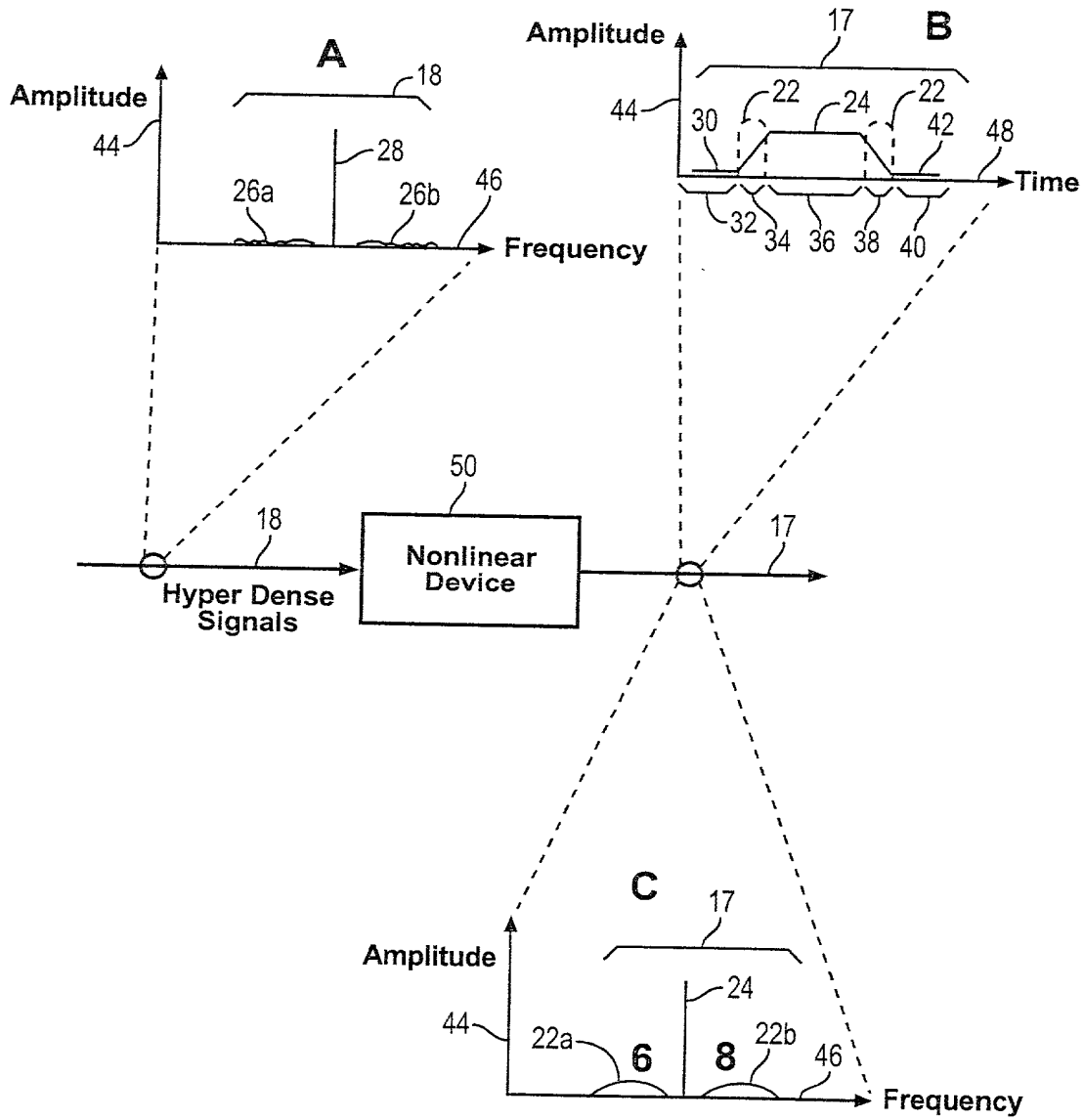


FIG. 3

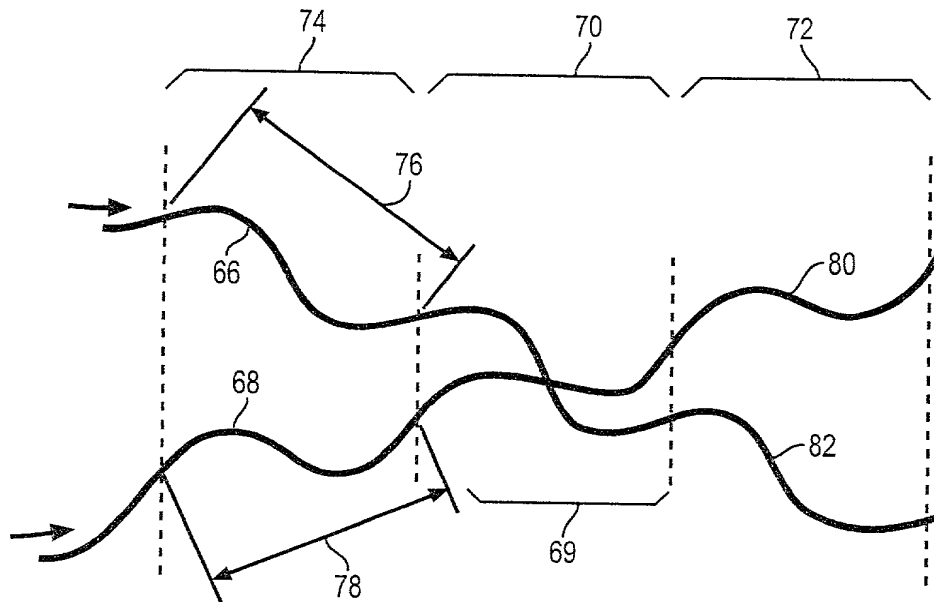


FIG. 4

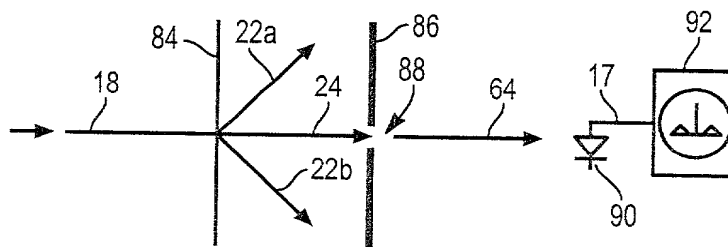


FIG. 5

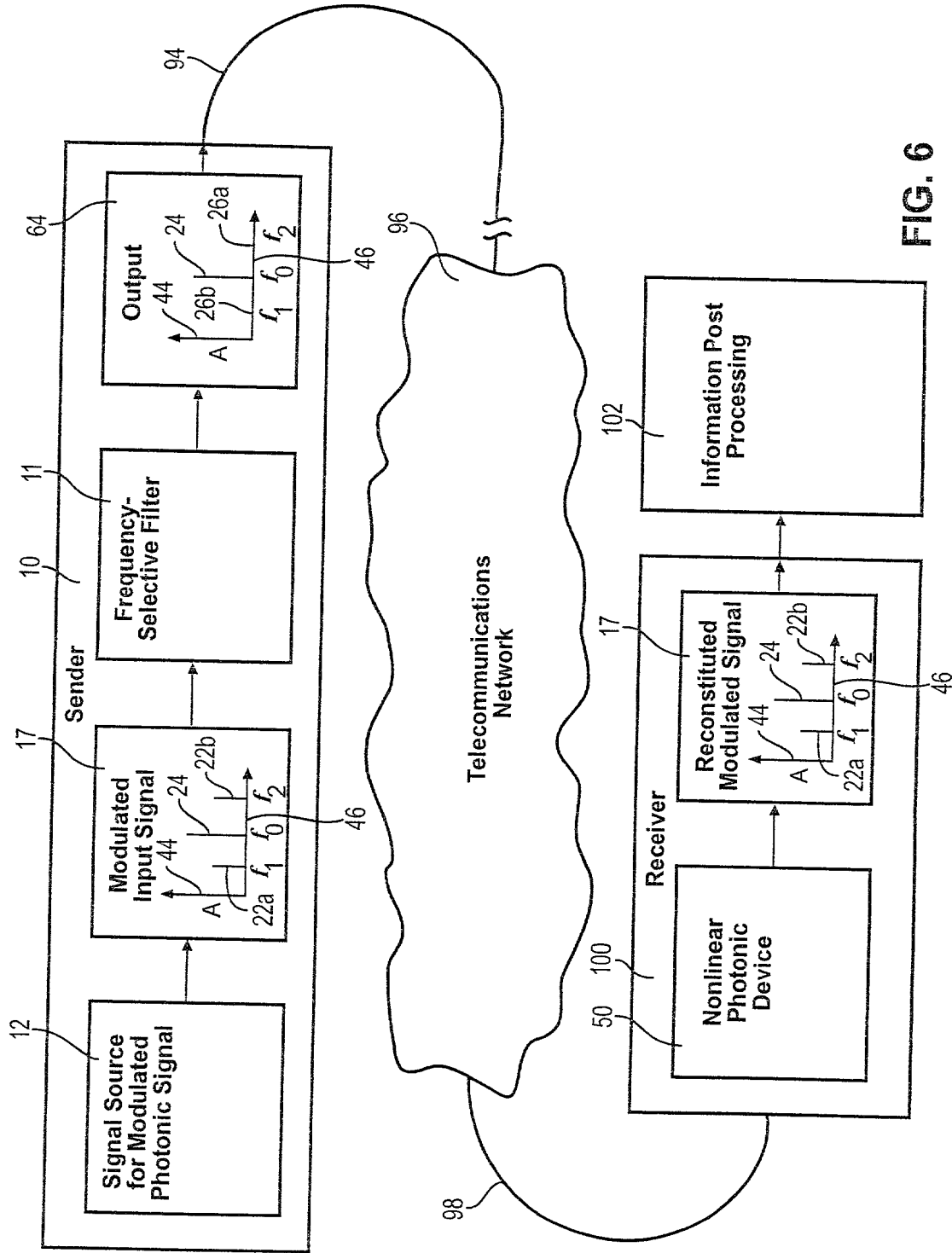
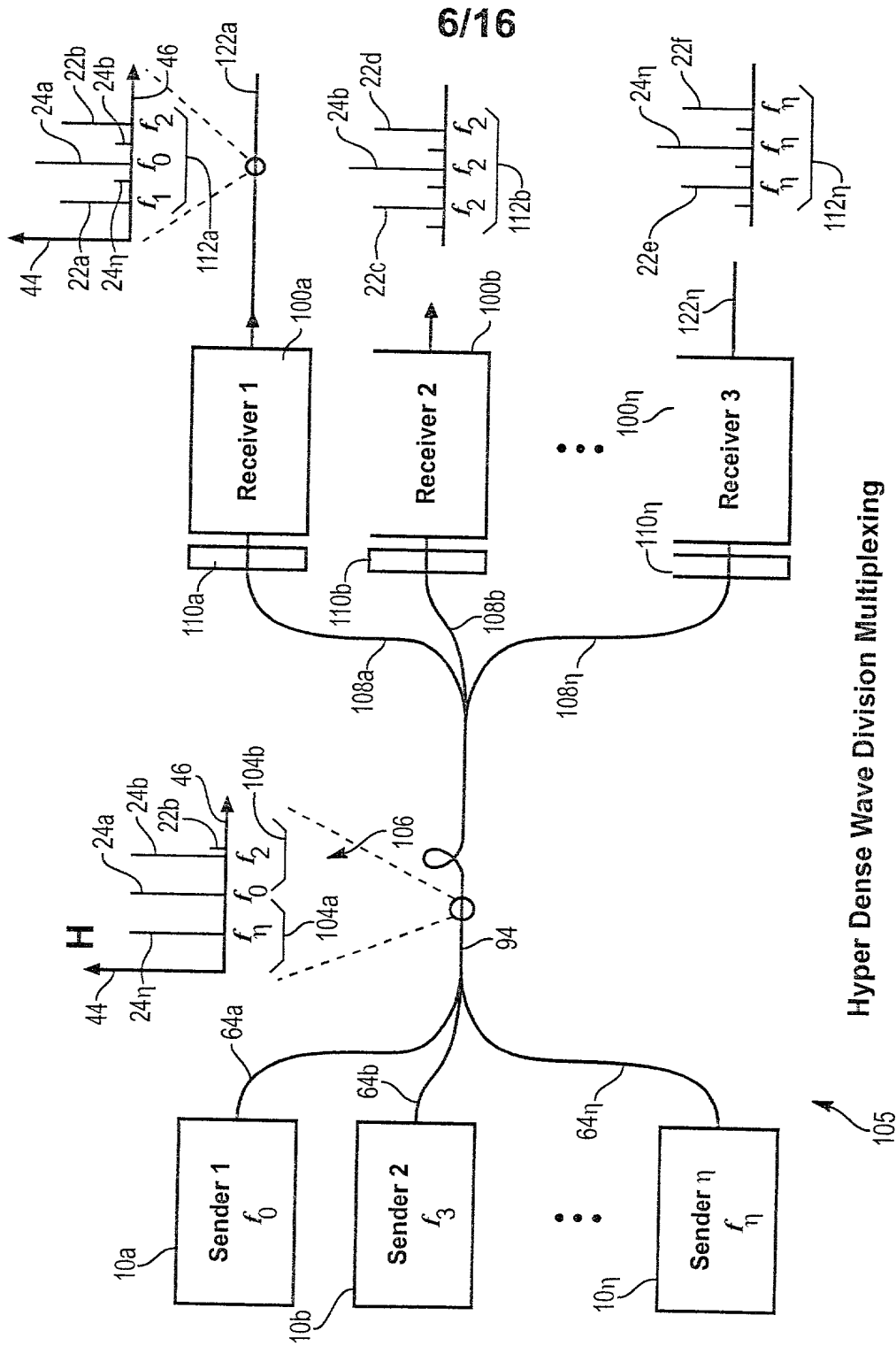


FIG. 6



Hyper Dense Wave Division Multiplexing

FIG. 7

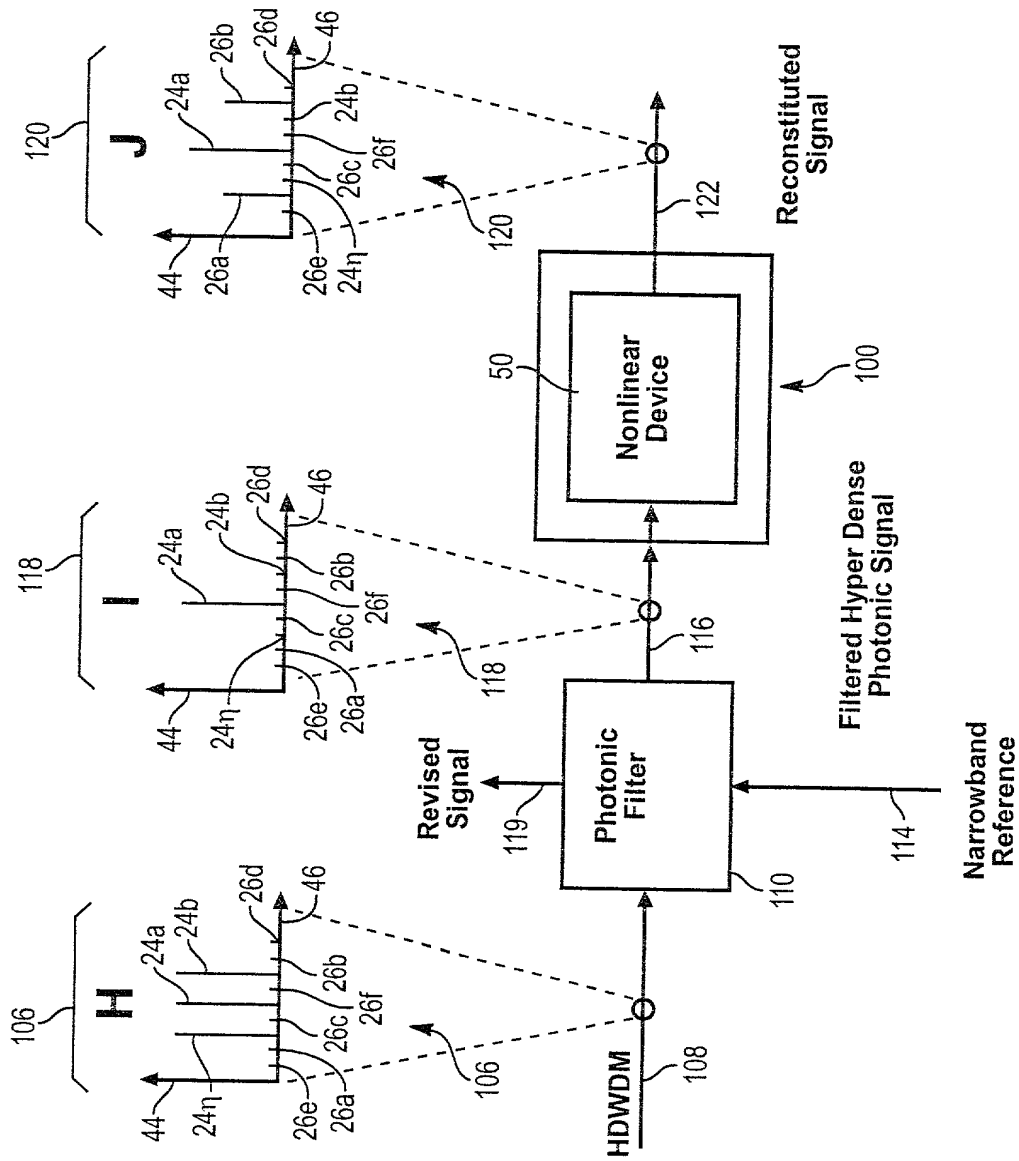


FIG. 8

# Hyper Dense Wave Division Demultiplexor (HDWDDM) Using Drop-Filter Band Selection

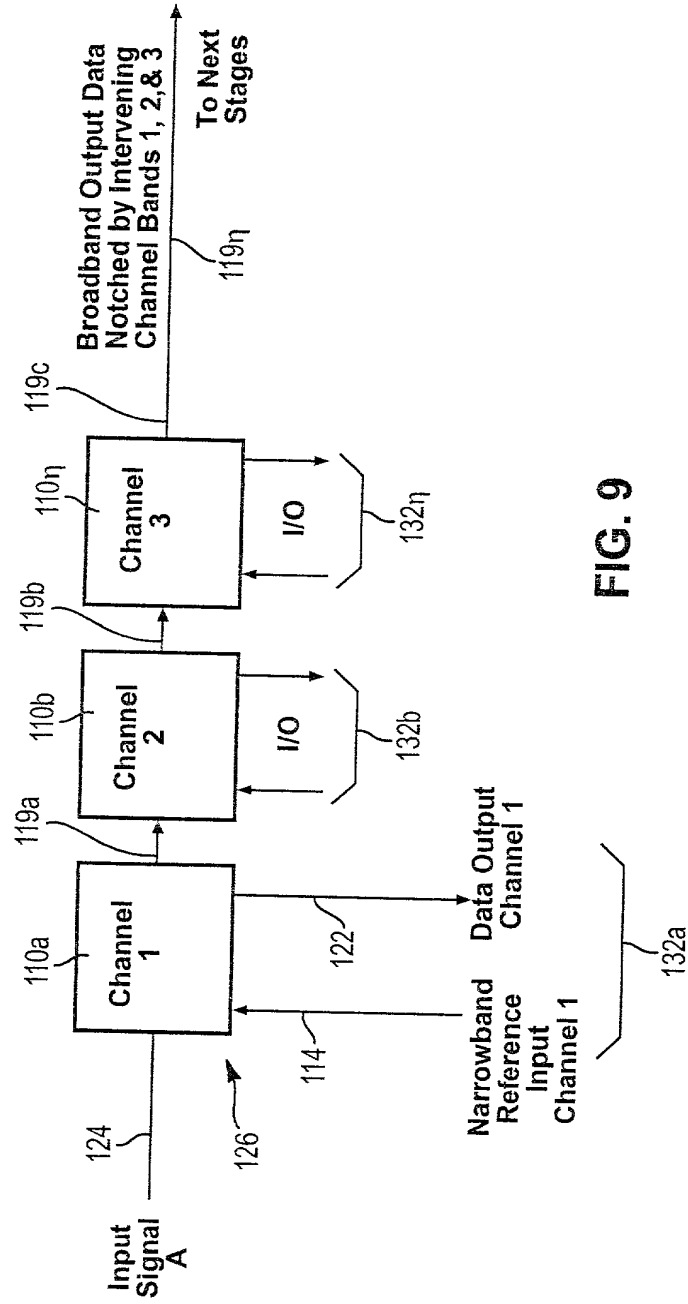


FIG. 9



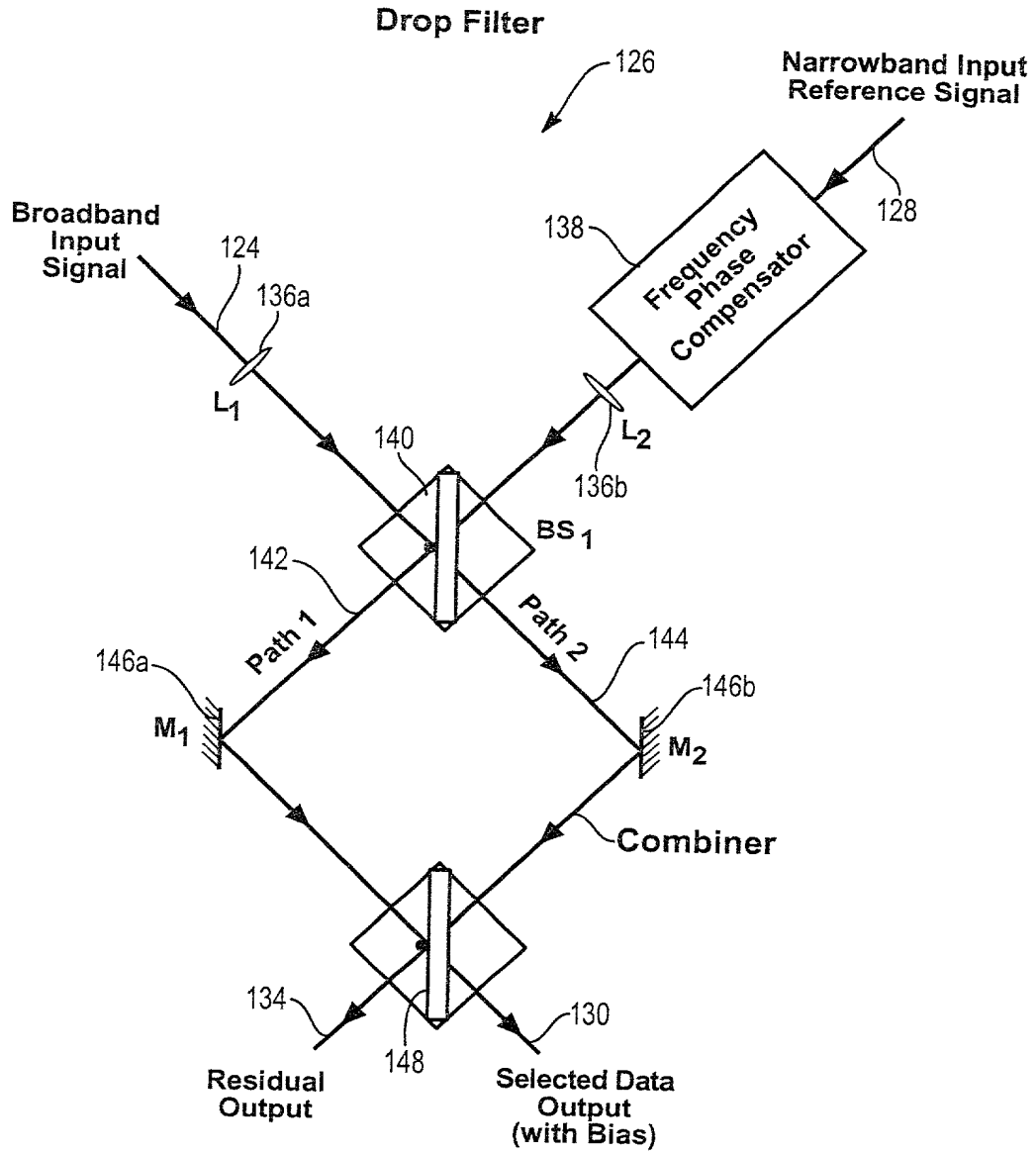
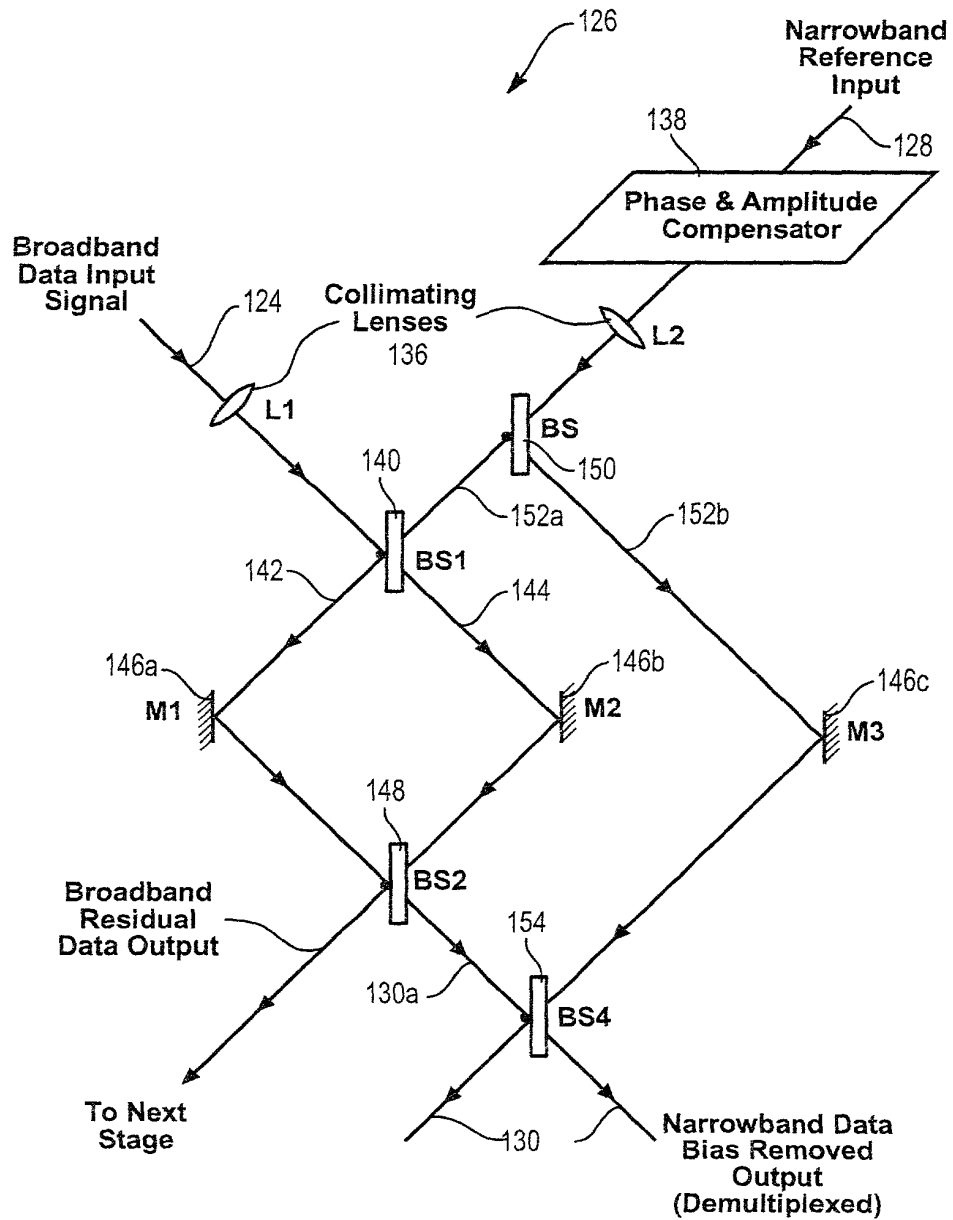


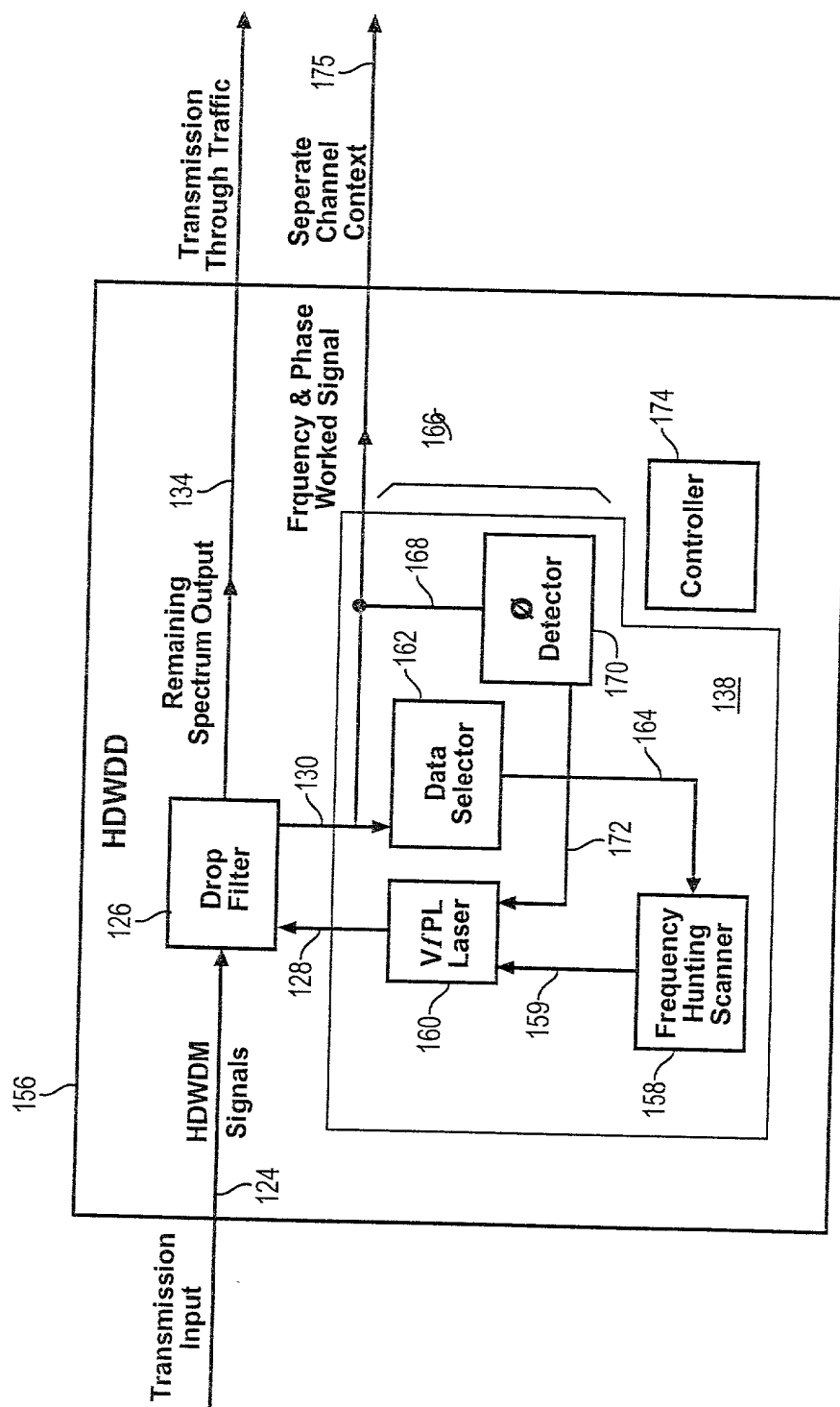
FIG. 10

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**Super Hyper Wave Division Demultiplexor (HDWDDM)  
Using Drop Filter Band Selection**



**FIG. 11**



Hyper Dense Channel Separator

FIG. 12

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# Channel-Selection Process

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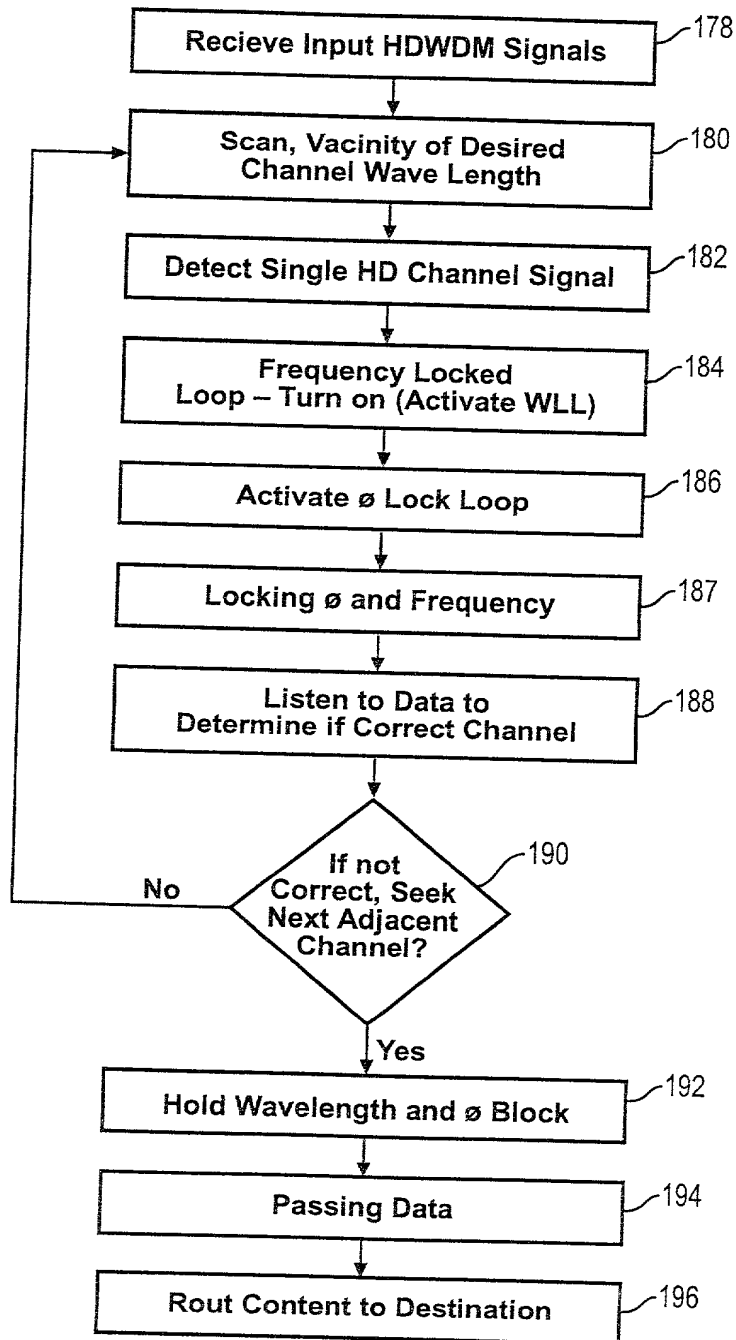
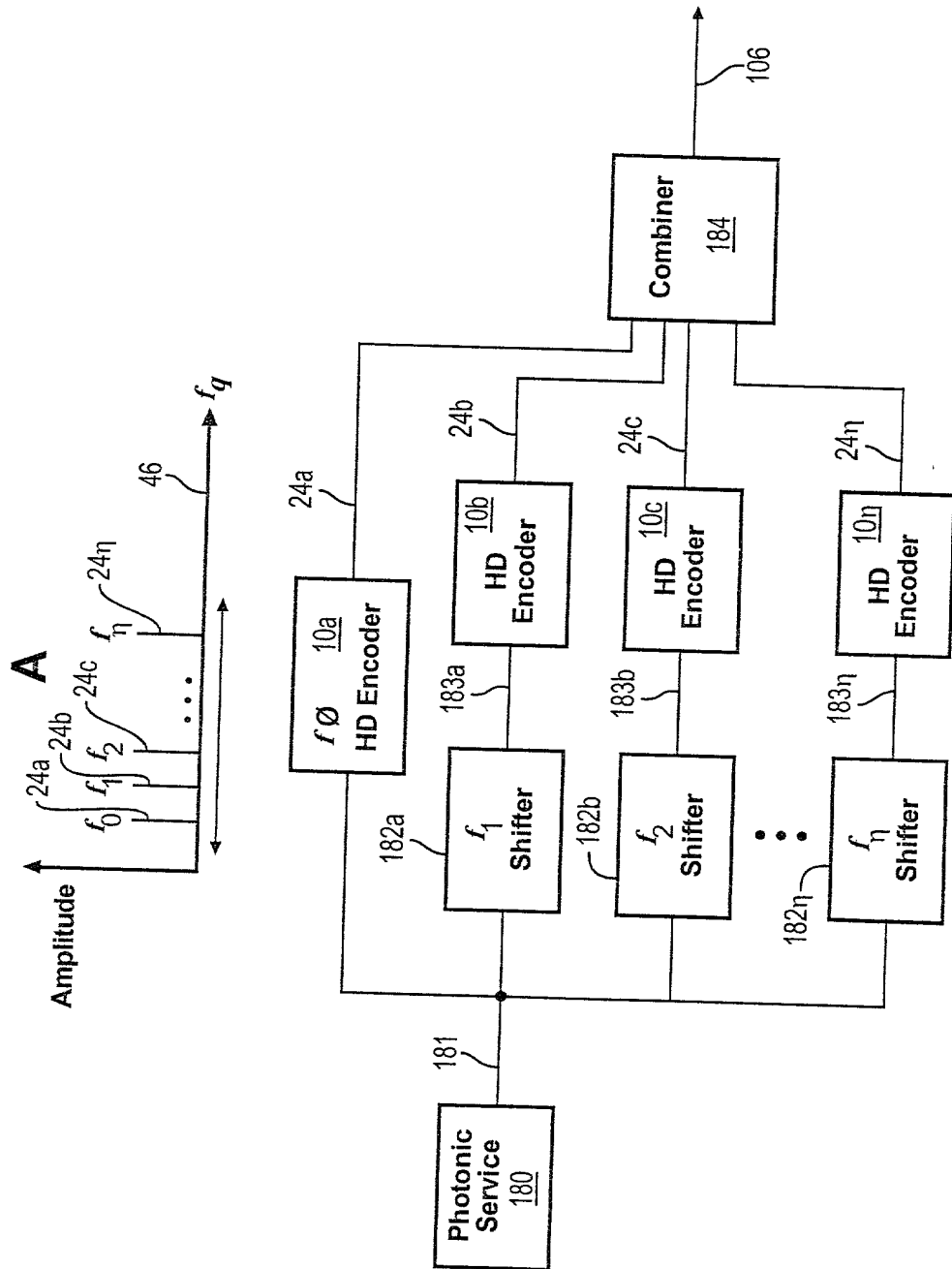
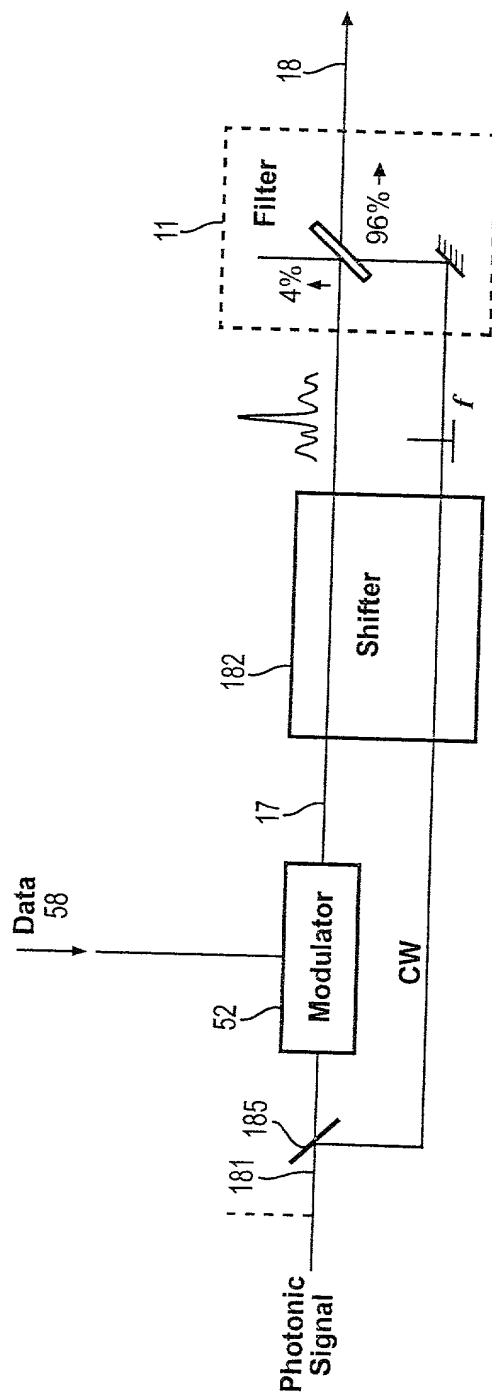


FIG. 13



HDWDM Multiplexer  
FIG. 14



Hyper Dense Frequency Shifted Signals

FIG. 15

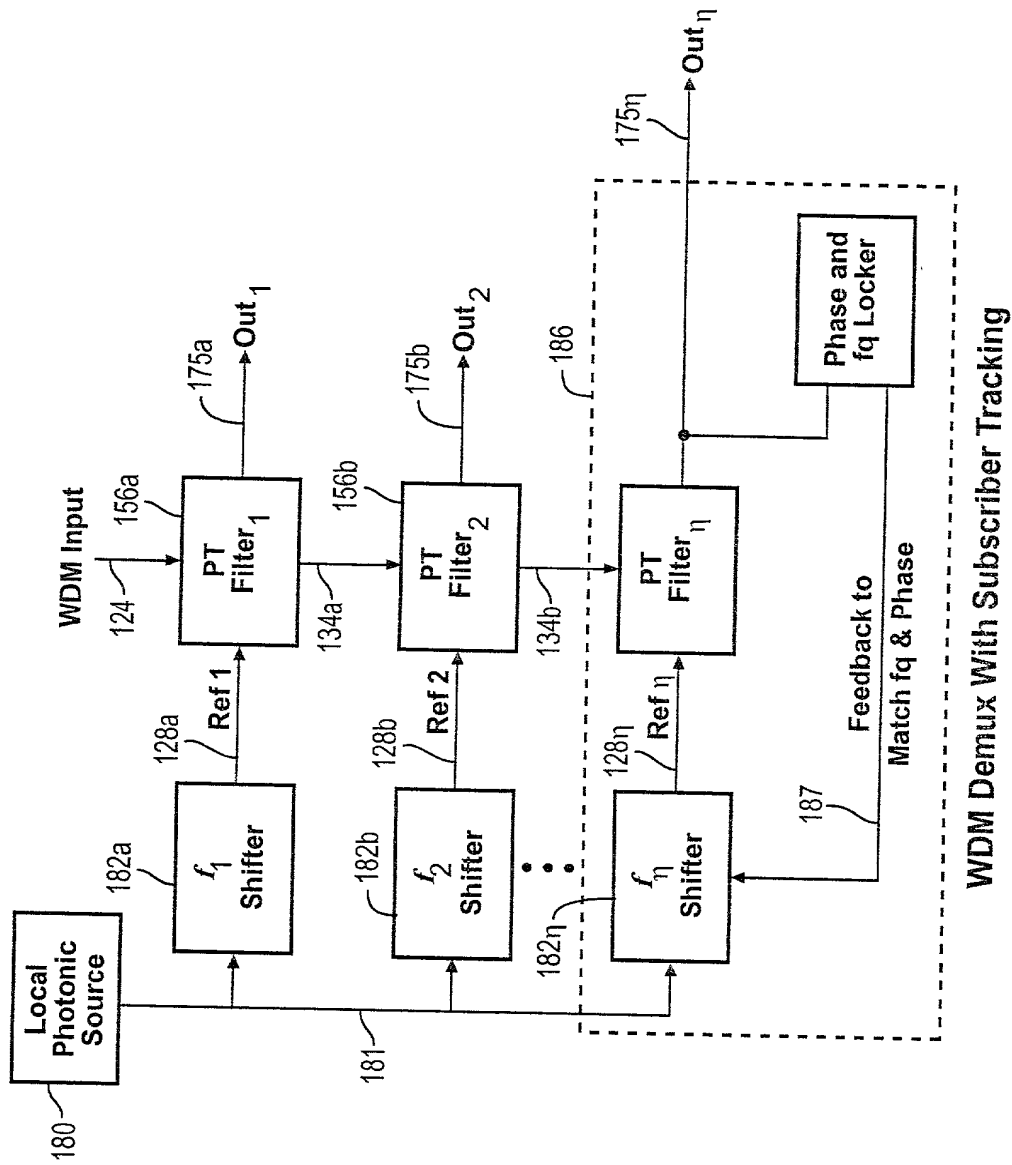
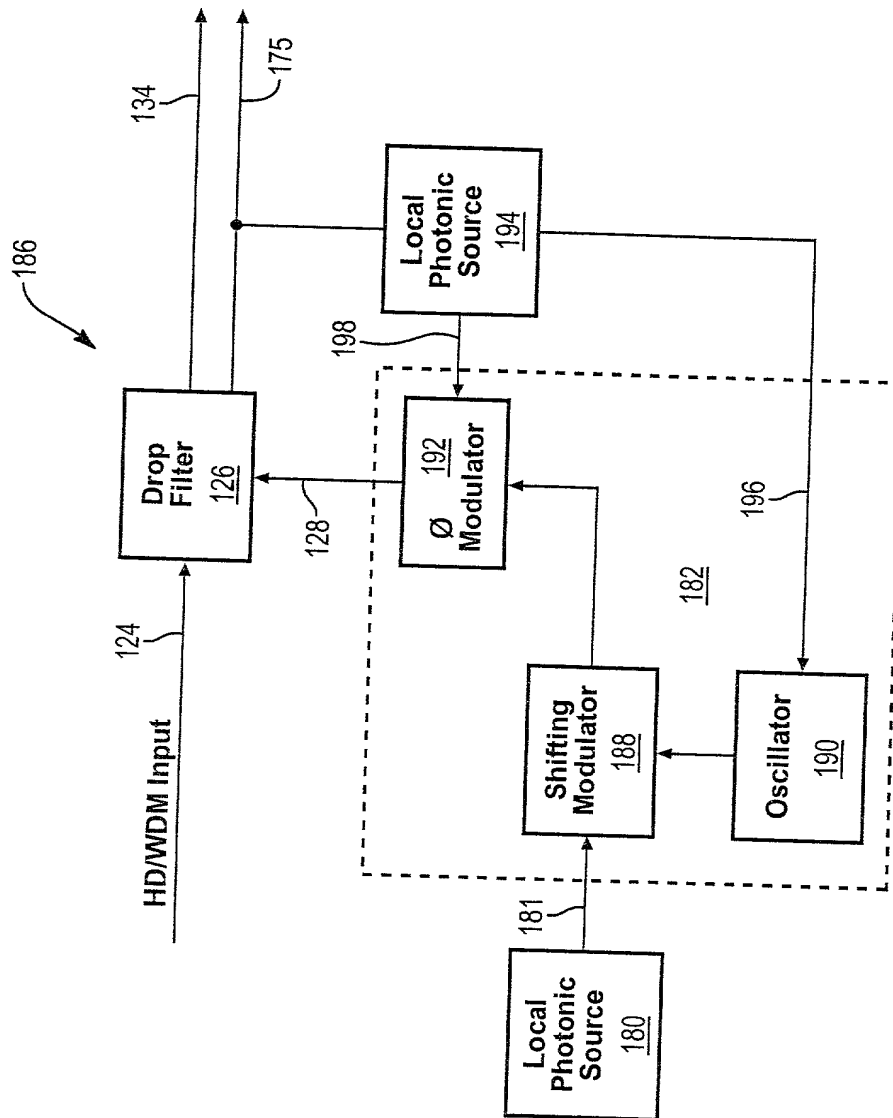


FIG. 16



Channel Separation Assembly

FIG. 17